

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454309

Luminaire Tested: **GALN-SA5B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23632 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

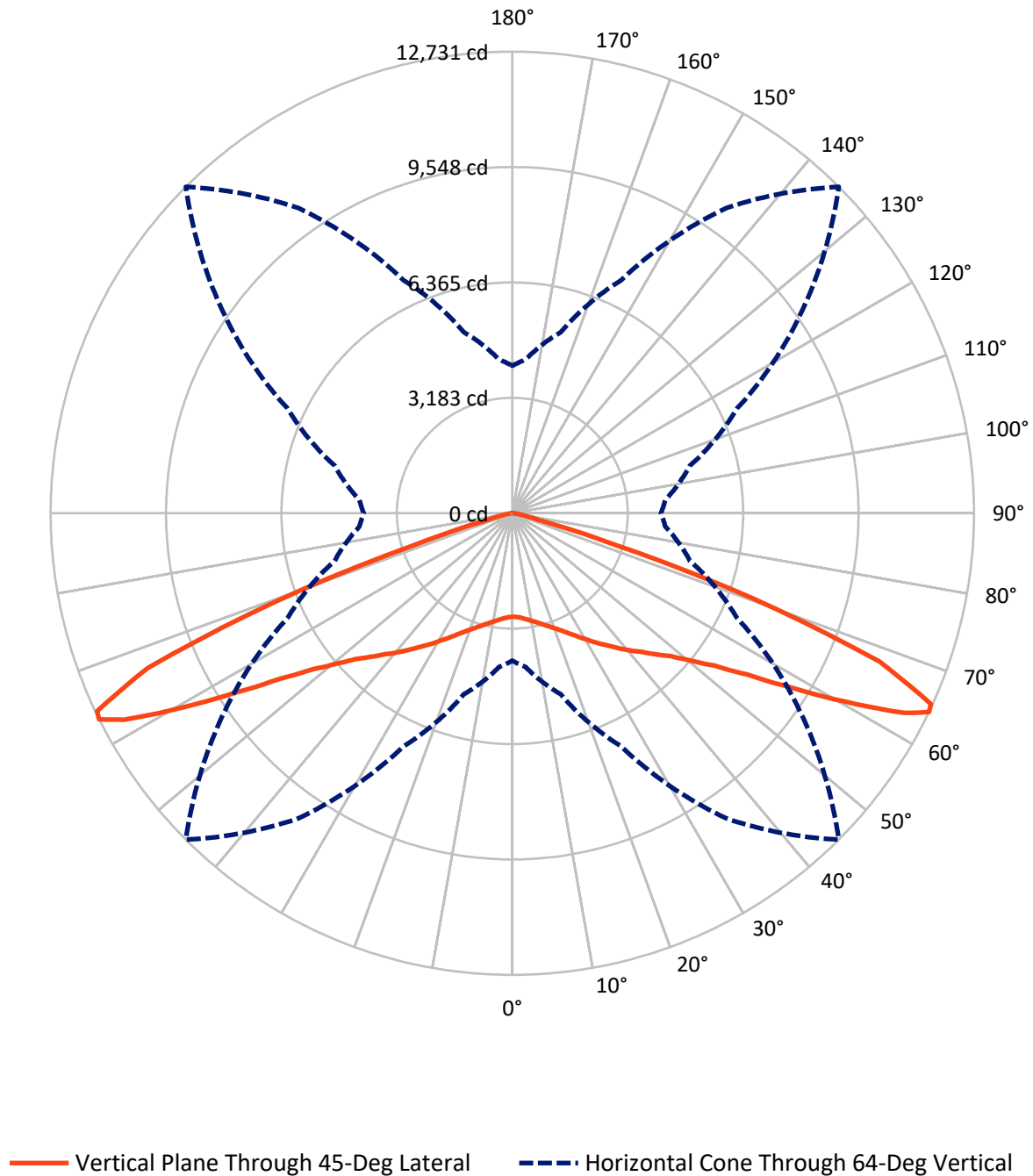
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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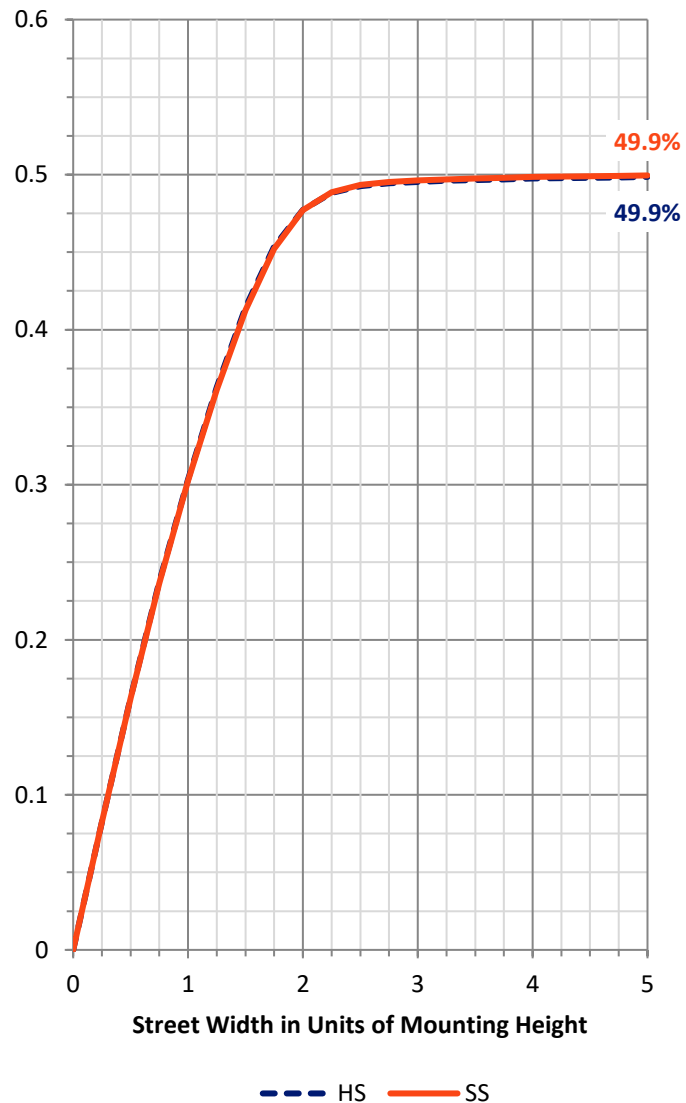
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11816.0	0.0	11816.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11816.0	0.0	11816.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23632.0	0.0	23632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.2
10°-20°	905.2	3.8
20°-30°	1710.5	7.2
30°-40°	2832.8	12.0
40°-50°	4422.4	18.7
50°-60°	6837.0	28.9
60°-70°	5895.4	24.9
70°-80°	668.1	2.8
80°-90°	80.0	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23632.0	100.0
0°-180°	23632.0	100.0

Coefficient of Utilization



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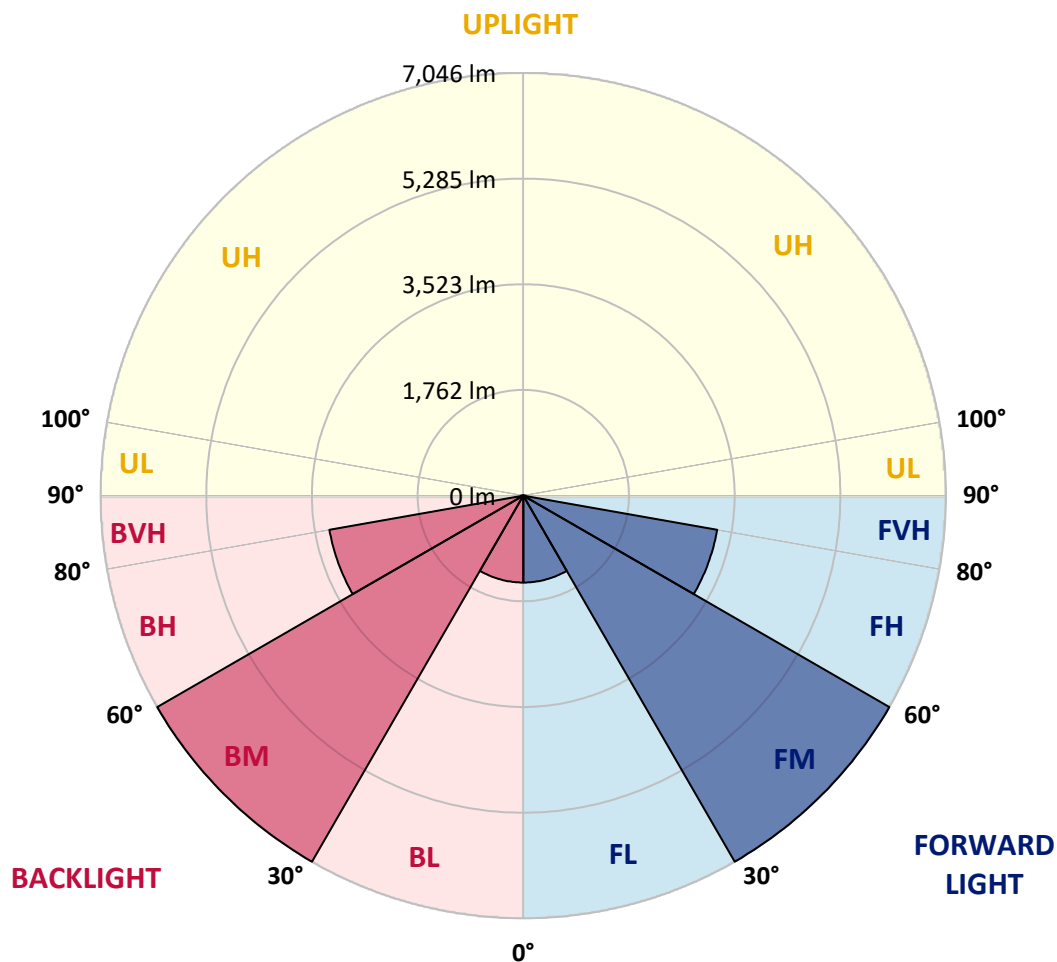
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1448.1	6.1			
FM	(30°-60°)	7046.1	29.8			
FH	(60°-80°)	3281.8	13.9			G2/5000
FVH	(80°-90°)	40.0	0.2			G1/100
BL	(0°-30°)	1448.1	6.1	B3/2500		
BM	(30°-60°)	7046.1	29.8	B4/8500		
BH	(60°-80°)	3281.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	40.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3	2856.3
2.5°	2867.6	2873.8	2868.8	2867.6	2866.3	2866.3	2866.3	2867.6	2872.6	2876.4	2873.8
5°	2903.9	2908.9	2906.4	2905.1	2903.9	2905.1	2902.6	2901.4	2905.1	2905.1	2903.9
7.5°	2948.9	2955.2	2952.7	2955.2	2956.5	2957.7	2951.5	2946.4	2945.2	2948.9	2946.4
10°	3010.3	3015.3	3016.5	3017.8	3020.3	3019.0	3011.5	3002.8	3001.5	3000.3	2999.0
12.5°	3079.1	3082.9	3084.1	3089.1	3092.9	3094.1	3085.4	3077.9	3065.4	3067.9	3062.9
15°	3156.7	3164.2	3163.0	3170.5	3180.5	3183.0	3174.3	3161.7	3150.5	3144.2	3140.5
17.5°	3251.9	3256.9	3254.4	3261.9	3274.4	3280.6	3273.1	3256.9	3245.6	3231.8	3224.3
20°	3364.5	3373.3	3375.8	3375.8	3387.0	3393.3	3382.0	3377.0	3359.5	3349.5	3343.2
22.5°	3492.2	3495.9	3503.4	3511.0	3522.2	3519.7	3516.0	3508.4	3492.2	3483.4	3473.4
25°	3636.1	3639.9	3658.6	3674.9	3678.7	3676.2	3671.2	3667.4	3652.4	3632.4	3624.9
27.5°	3803.8	3811.4	3836.4	3851.4	3851.4	3852.7	3842.6	3855.2	3822.6	3798.8	3796.3
30°	4014.1	4019.1	4040.4	4055.4	4047.9	4041.7	4039.2	4051.7	4016.6	3974.1	3964.1
32.5°	4221.9	4239.4	4258.2	4290.7	4264.5	4253.2	4250.7	4259.5	4219.4	4171.8	4158.1
35°	4444.7	4457.2	4492.3	4519.8	4496.0	4469.7	4481.0	4508.5	4461.0	4397.1	4394.6
37.5°	4691.3	4702.5	4747.6	4776.4	4758.9	4713.8	4732.6	4765.1	4717.6	4638.7	4622.4
40°	4947.9	4971.7	5028.0	5058.0	5029.2	4969.2	5004.2	5039.2	4996.7	4905.3	4869.0
42.5°	5235.8	5273.3	5354.7	5369.7	5314.6	5233.3	5294.6	5350.9	5320.9	5215.7	5202.0
45°	5572.5	5595.0	5695.1	5727.7	5651.3	5549.9	5626.3	5728.9	5706.4	5585.0	5558.7
47.5°	5949.2	5970.5	6074.4	6123.2	6026.8	5890.4	6028.1	6162.0	6148.2	6018.1	6005.5
50°	6394.8	6399.8	6543.8	6598.8	6502.5	6384.8	6507.5	6673.9	6618.9	6452.4	6449.9
52.5°	6883.0	6889.2	7070.7	7177.1	7123.3	6990.6	7135.8	7237.2	7097.0	6879.2	6862.9
55°	7306.0	7337.3	7585.2	7868.0	7941.9	7845.5	7889.3	7841.7	7496.3	7190.9	7143.3
57.5°	7478.8	7540.1	7916.9	8445.1	8925.7	9068.4	8730.4	8277.3	7655.3	7223.4	7177.1
60°	7056.9	7123.3	7707.8	8710.4	9937.1	10556.6	9606.6	8351.2	7293.5	6686.5	6613.9
62.5°	5651.3	5670.1	6530.0	8085.8	10526.6	12131.2	9975.9	7721.6	6240.9	5416.0	5387.2
64°	4066.7	4259.5	5170.7	7089.5	10268.7	12730.8	9763.1	6839.2	5069.3	4234.4	4099.2
65°	3041.6	3094.1	4168.1	6054.4	9814.4	12685.7	9350.0	5995.5	4198.1	3240.6	3090.4
67.5°	1149.0	1155.3	1538.3	3017.8	6986.9	10914.6	7135.8	3261.9	1768.6	1279.2	1232.9
70°	476.9	485.7	564.5	1015.1	3002.8	7008.1	3440.9	1176.6	647.1	524.5	516.9
72.5°	349.2	354.2	378.0	450.6	923.7	2877.6	1131.5	499.4	379.3	339.2	335.4
75°	274.1	276.6	294.1	331.7	430.6	797.3	470.6	343.0	289.1	260.3	257.8
77.5°	209.0	215.3	227.8	252.8	289.1	378.0	311.7	256.6	222.8	199.0	195.3
80°	143.9	151.5	175.2	185.2	194.0	245.3	212.8	194.0	174.0	145.2	136.4
82.5°	88.9	93.9	117.7	126.4	122.7	137.7	136.4	138.9	123.9	90.1	83.9
85°	46.3	48.8	63.8	66.3	61.3	56.3	70.1	81.4	76.4	51.3	50.1
87.5°	10.0	11.3	13.8	12.5	13.8	13.8	17.5	26.3	27.5	17.5	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)